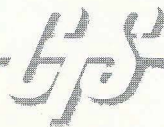


## *Community Transportation Services*

A DIVISION OF BUENA VISTA DISTRIBUTION,  
SUBSIDIARY OF WALT DISNEY PRODUCTIONS





**THE  
PEOPLEMOVING  
PEOPLE**

*From the Disney organization...  
a transportation firm of uniquely  
broad capability, experienced in all  
phases of the art and science of  
moving people.*







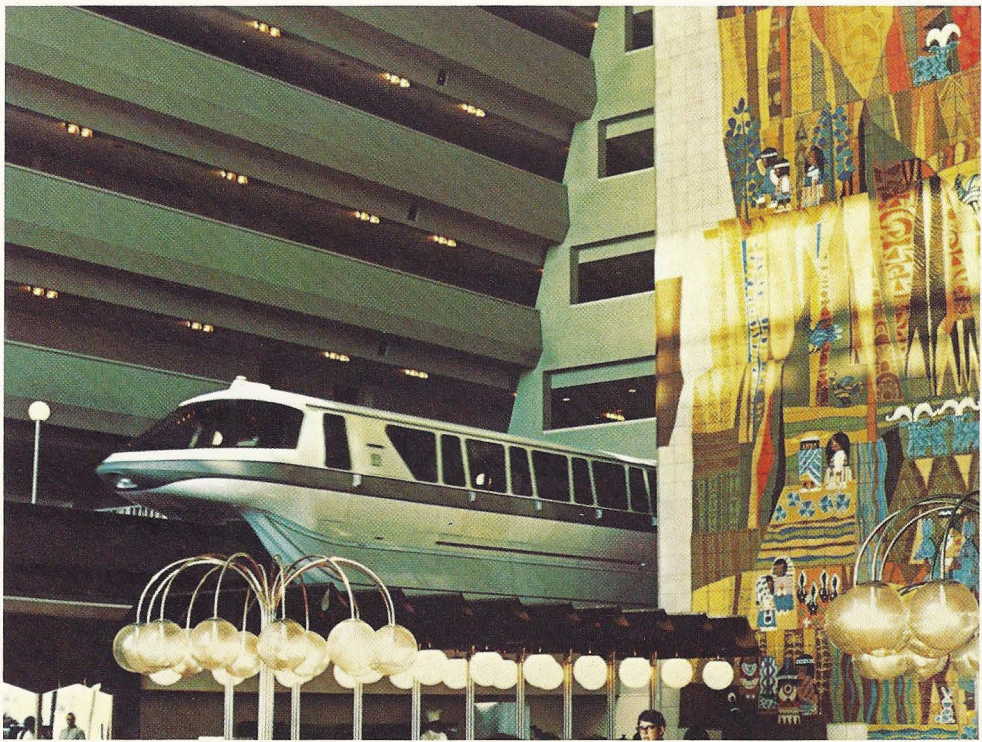


## COMMUNITY TRANSPORTATION SERVICES

*Every mode of Disney-developed transportation, for land, water, and elevated use, has been designed for a common goal...to move large numbers of people safely, comfortably, and in a pleasing manner.*

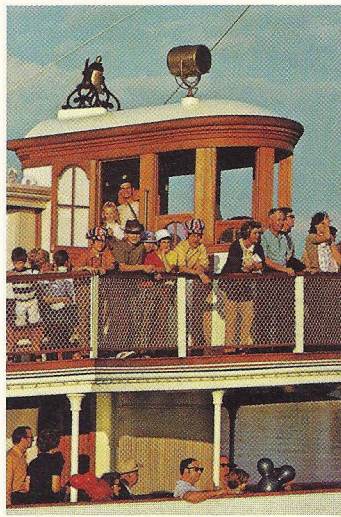




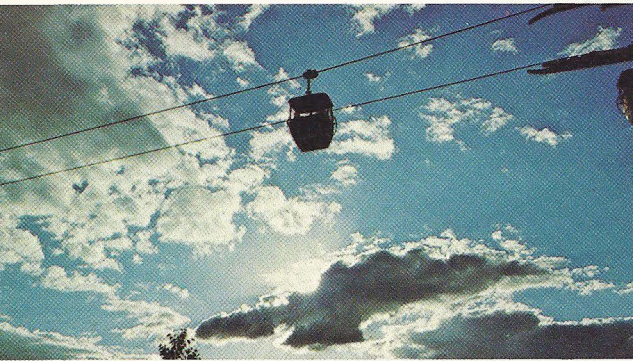




Numerous modes of Disney owned and operated transportation systems have been used with great effectiveness in moving millions of guests each year at Walt Disney World in Florida and Disneyland in California.



## AN INTRODUCTION TO CTS



Community Transportation Services, an affiliate of Walt Disney Productions, is making its debut into community mass transportation, bringing over 20 years experience in the movement of more than half-a-billion people in private enterprise. The foregoing figures reflect the major systems which, in combination, have carried guests of Disneyland and Walt Disney World over 400 million passenger miles.

Long recognized as "the innovators" in *people-handling*, the Disney organization has been frequently queried by domestic and foreign cities, airports, shopping centers, and other governmental and private parties interested in applications of the company's Monorail and WEDway PeopleMover systems. Community Transportation Services is pleased to offer the talents of the highly experienced Disney transportation team to organizations concerned with the planning and development of public transportation systems.

Community Transportation Services is unique among companies in the transportation field insofar as total capabilities are concerned. Many companies involved in the field of public transportation are experienced in a specific phase or area such as vehicle design or system operation. Community Transportation Services, on the other hand, enjoys two decades of practical experience acquired not only in design and operation, but also in construction and maintenance of wholly-owned Disney transportation systems. From horse-drawn streetcars to advanced monorail systems, Disney transportation expertise has been developed in a number of diversified modes including trams, tractors, steam trains, steam ships, electric rail cars, and skyway gondolas.

## SCOPE OF OUR SERVICES

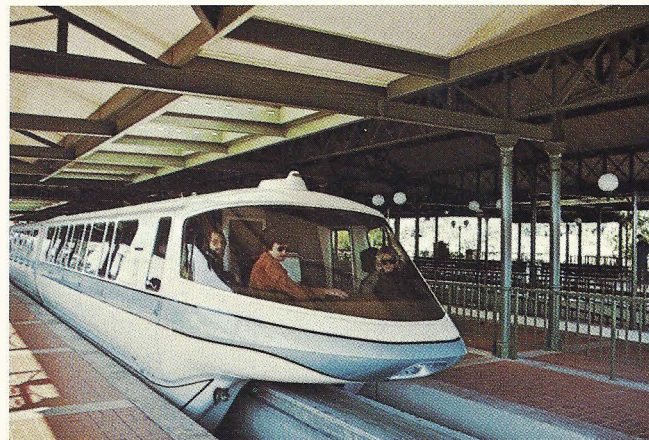
With a background of success in a variety of Disney modes of transportation, CTS will lend its knowledge and expertise in *all* areas through involvement in the master planning and development of new short-range, intra-city public transportation systems. The company will also license Disney-developed systems for these applications and will administer their construction and installation.





## FOUR GENERATIONS OF MONORAIL SYSTEMS

*All guideway beams, horizontal and vertical, were designed by the Disney staff, exclusively for the Walt Disney World System. All ten trains were assembled by Martin-Marietta Corporation from Disney design specifications.*





When Disneyland began daily operation of the country's first monorail system in 1959, serious interest from urban and municipal organizations was minimal at best. But with problems of mass transportation looming on the horizon, once skeptical eyes soon turned toward Disneyland. As the need for additional trains grew along with the park's expansion, improvements to the monorail system were judiciously incorporated. Outside organizations continued to observe, with ever-increasing optimism, the efficiency and practicality of Disneyland's system.

By the time Walt Disney World opened in October 1971, the Disney transportation staff had readied its finest monorail system, Mark IV, which today is the most widely acclaimed of all the company's systems. The silent-running, all-electric trains combine luxury with outstanding achievements in engineering. The sleek exterior design of the vehicles and smooth, handsome features of the guideway reflect the Disney organization's concern for aesthetic values of the environment.

All ten Walt Disney World Monorail Trains incorporate an air-suspension system for the smoothest possible ride. Interiors feature carpeted floors, padded seats and climate controlled air-conditioning for each compartment. Safety features include pilot-controlled doors and an anti-collision automatic braking system.

Additional safety is afforded by an annunciator panel from which each train's operator can monitor 33 operational factors. Depending on the severity of any would-be malfunction, the system may shut down automatically or be stopped at the discretion of the operator.

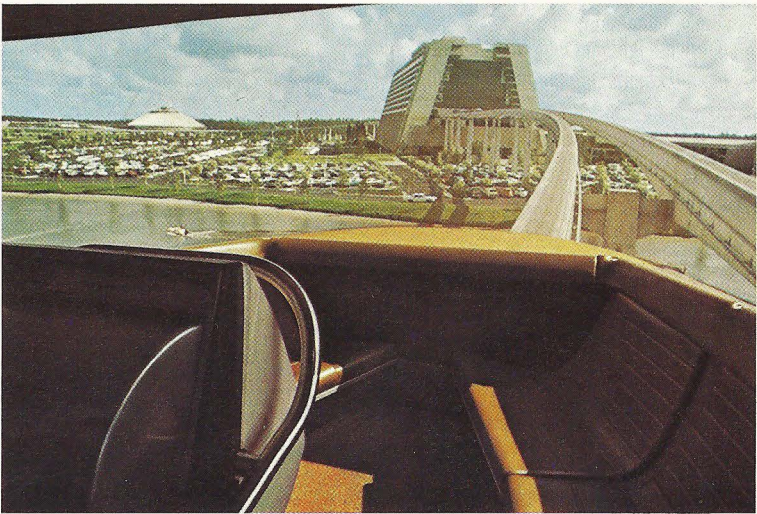
Operating on 6.7 miles of track, the Walt Disney World Monorail System features an elevated, double-loop configuration, each loop being three miles in length. The additional 7/10th mile is utilized as a spur line, connecting the main concourse to the "round house." As of the third anniversary of Walt Disney World, the park's 10 trains, each with five cars and a capacity for 212 seated passengers, had carried over 60 million people a distance of more than 1.5 million train miles.

Of special note in this system is the Disney staff's engineering of the pre-cast concrete guideway. The resulting design features long-span pre-cast beams with curved haunches, pre-cast columns and cast-in-place substructure—a combination that creates a technically exciting and highly functional structure. Close attention to tolerances for riding comfort, smooth geometry and no disruptive discontinuities provide an aesthetically pleasing structure totally compatible with its surroundings.

Tapered pre-cast concrete columns supporting the monorail have a maximum height of 60 feet. The pre-stressed girders vary from 90 to 110 feet in length; mid-span depths are 48 inches and at the ends with parabolic haunches they are 80 inches in depth. They were cast with hollow cores to keep weights under 50 tons. Approximately half of the girders have some combination of vertical and horizontal curvatures and variable super-elevation. Accurate prestressing ensures zero camber for the guideway girders.



*Safety features on each Walt Disney World monorail train include the annunciator panel, operator-controlled doors, and excellent operator visibility.*







Continuously moving PeopleMover trains at Disneyland are capable of handling 5,400 persons per hour. Small imbedded motorized wheels in the guideway move each train over the 3/4 mile course. Non-stop loading and unloading method is afforded by a circular, Disney-designed moving platform, synchronized to the vehicle's speed.





## THE WEDWAY PEOPLEMOVER SYSTEMS

The first Disney-designed PeopleMover System enjoyed immediate international attention at the 1964 World's Fair in New York. The unique system carried millions of visitors in comfort and safety through Ford Motor Company's "Magic Skyway" exhibit. Three years later, Disneyland inaugurated its WEDway PeopleMover System which, through September 1974, carried nearly 30 million people over 23 million passenger miles on the 3/4 mile course in Tomorrowland.

Much of the design technology developed in the World's Fair PeopleMover System was applied to the initial Disneyland system. Vehicle design represented the major difference. In the interest of product promotion, Ford Motor Company chose to use cars from each of its divisions in the Fair exhibit. The vehicles of Disneyland's PeopleMover System were exclusively designed by the Disney team to conform with the theme of Tomorrowland.

Each of Disneyland's PeopleMover units consists of four adjoined vehicles forming a 20-passenger "train." Each train is propelled by a series of electric motor-driven rubber wheels imbedded in the course's guideway. Control systems for the imbedded wheels permit variance of speed along the route. In this application, the WEDway cars ride on a steel guideway supported by an elevated concrete roadbed.

A key factor in the overall efficiency of the Disneyland PeopleMover is found in the passenger loading and unloading technique. Calm and orderly loading is accomplished after the passengers step onto a moving circular platform which is synchronized to the speed of the vehicle being loaded. This method affords the safety of a "standing still" loading/unloading operation without having to stop any of the vehicles.

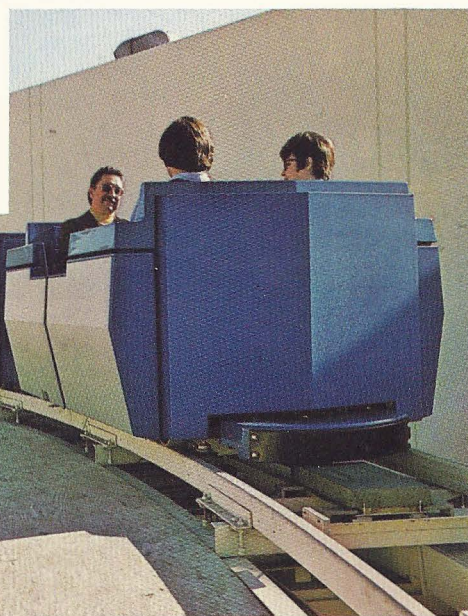
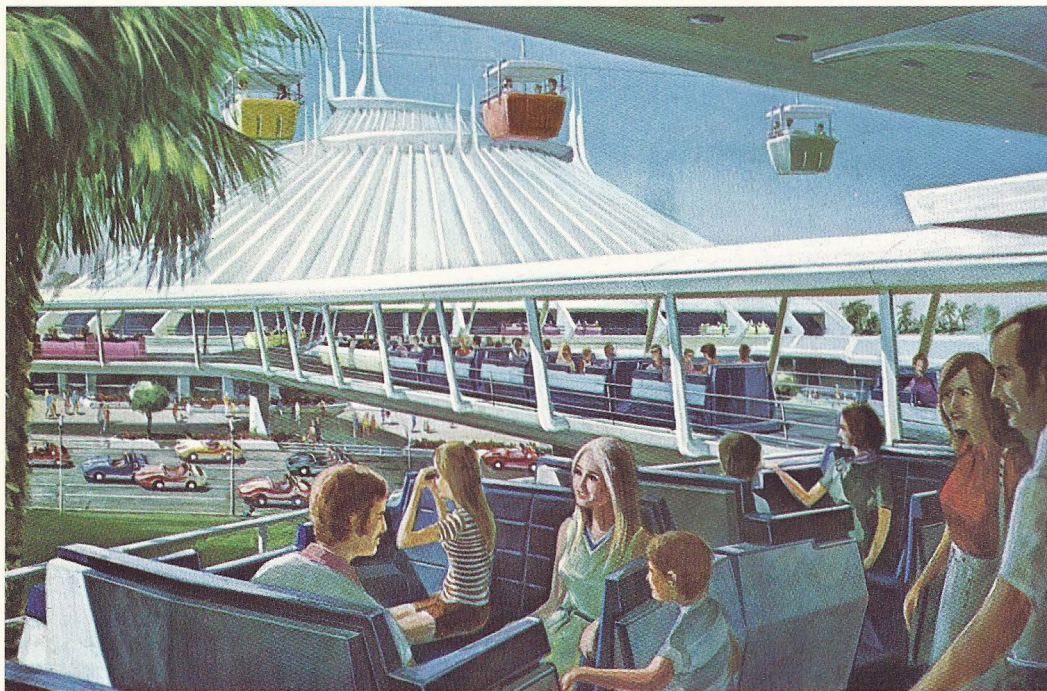




In keeping with the Disney emphasis on innovation, the Walt Disney World WEDway PeopleMover System, to be introduced in 1975, will feature an all new, fully tested electric linear motor system. Easily adapted for use in shopping centers and downtown areas, the totally pollution-free linear induction motor has no moving parts. It operates by creating a magnetic field which "pushes" the vehicle along its elevated guideway.

As an outgrowth of this unique system, CTS will also offer a "reactance rail" system. Whereas the Walt Disney World system has linear motors mounted in the guideway, the "reactance rail" design incorporates its motors within the vehicles. Energized stators in the motor react with the rail to create the same type of magnetic "propulsion" found in the new WEDway PeopleMover.

## OUR NEWEST PEOPLEMOVER

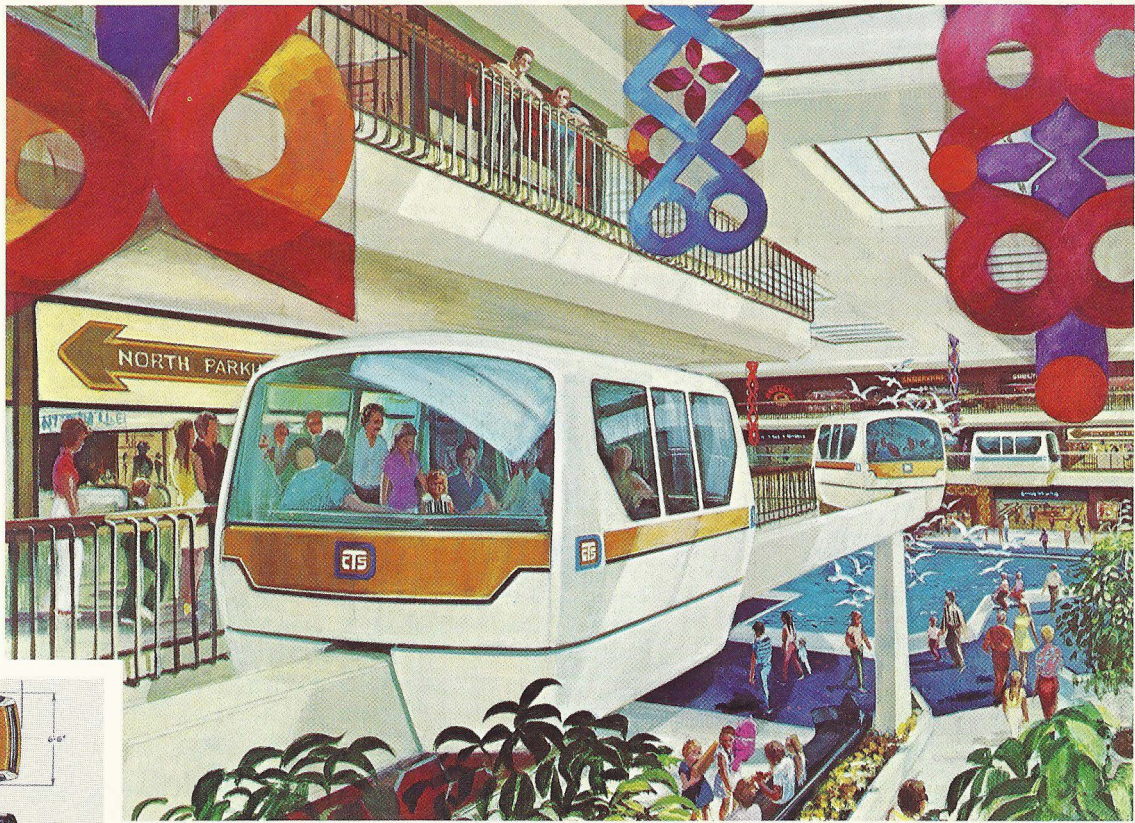


*New WEDway PeopleMover System to become operative in 1975 at Walt Disney World will feature linear induction motors. In this application, cars will be "pushed" along the guideway by a magnetic field created by linear motors imbedded at various intervals.*





Eleven basic designs of modular cars are offered by CTS, ranging from low-profile single vehicles to wide-bodied monorail trains. Three series of CTS vehicles are designed to run on surface tracks, the remainder on elevated guideways.

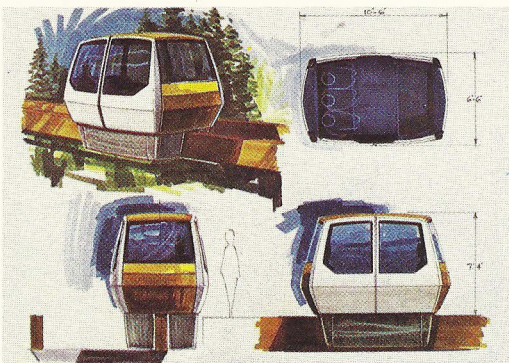
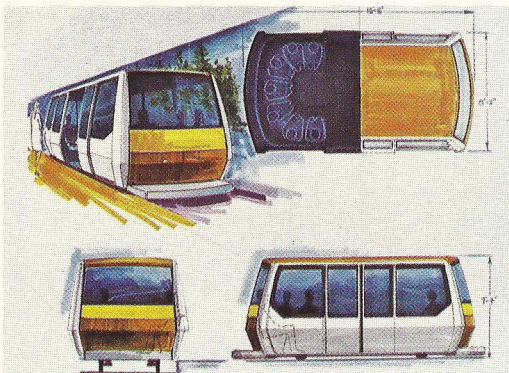
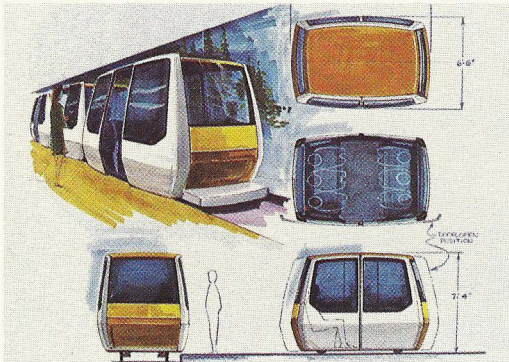


## THE CTS CONCEPT OF MODULAR CARS

Drawing on the broad experience obtained in producing four generations of monorail systems, Community Transportation Services has developed a "modular car concept" which promises to make the Disney systems extremely flexible and economical. Making use of a basic set of parts which can be configured in a variety of ways, the modular car concept will have favorable impact on manufacturing as well as operation of the systems. The inherent building-block characteristics will permit CTS to meet a wide range of capacity requirements from six-passenger single vehicles to 250-passenger trains.

The equipment and interior design of the modular car systems will be offered in many variations to suit individual requirements. Design considerations such as power, control, air-conditioning, and basic seating arrangements will be keyed to the different modular concepts.

Although emphasis has been placed herein upon modularizing monorail configurations, Community Transportation Services is capable of employing other chassis designs, such as surface guideways, to the same modular body concept. Our staff and facilities also provide total capability in the planning, development, installation, and operation of entire customized-car systems.





## COMMUNITY TRANSPORTATION SERVICES

A company whose proven systems have influenced transportation planners throughout many parts of the world. We're proud of our numerous innovations and the popularity of our systems with millions of passengers over millions of miles. Such achievements have been made possible by total capability in the following areas, which we now offer to interested parties:

- PLANNING** —including feasibility and preliminary design studies to determine cost and engineering parameters.
- DESIGN** —all design services, from preliminary design, through cost estimating, to final design and specifications.
- PROGRAM MANAGEMENT** —complete management and services for construction of on-site facilities and manufacture of vehicles and support systems. CTS also directs installation of vehicles and the guideways upon which they operate.
- OPERATION & MAINTENANCE** —complete training of personnel in operating characteristics and system maintenance.

Community Transportation Services will also consider joining forces with other planning and development firms in selected areas where our talents and experience in people-moving can be used to complement the design and execution of other mass transportation projects.

For further information about our systems and services, contact:

Community Transportation Services  
1401 Flower Street  
Glendale, California 91201  
Telephone: (213) 245-8951

*Community Transportation Services  
is a Division of Buena Vista Distribution Co., Inc.,  
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***Community Transportation Services***

"The PeopleMoving People"

1401 FLOWER ST. GLENDALE, CA 91201



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